Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (original) A medical device, comprising
- a blood-impermeable wall defining a cavity having a lumen through the wall at a first end opposite a second end, the wall including a flexible section;
 - a frame attached to the wall; and
- an actuation system attached to the frame for moving the frame between an expanded position and a contracted position.
- 2. (original) The medical device of claim 1, wherein the actuation system comprises a shape memory material having a transformation temperature and means for moving the shape memory material through its transformation temperature.
- 3. (original) The medical device of claim 2, wherein the actuations system comprises struts formed of the shape memory material, and wherein the struts are electrically connected to a voltage source.
- 4. (original) The medical device of claim 1, wherein the actuation system comprises a balloon and an inflation lumen fluidly attached to the balloon.
- 5. (original) The medical device of claim 1, wherein the actuation system comprises an electroactive polymer.
- 6. (original) The medical device of claim 1, wherein the cavity has a volume of between 40 cc and 100 cc.
- 7. (original) The medical device of claim 6, wherein the cavity has a volume of between 60 cc and 85 cc.

- 8. (original) The medical device of claim 1, wherein a cross-section of the cavity at the first end is larger than a cross-section of the cavity at the second end when the frame is in the expanded position.
- 9. (original) The medical device of claim 8, wherein the cavity has a generally conical shape when the frame is in the expanded position.
- 10. (original) The medical device of claim 8, wherein the cavity has a slightly flattened conical shape when the frame is in the expanded position.
- 11. (withdrawn) The medical device of claim 1, wherein the frame comprises a first set of struts extending out from a position proximate the second end of the wall.
- 12. (withdrawn) The medical device of claim 11, further comprising a central shaft extending longitudinally from the second end, and wherein the actuation system comprises a second set of struts attached to the central shaft.
- 13. (withdrawn) The medical device of claim 12, where the second set of struts is slideably attached to the first set of struts.
- 14. (withdrawn) The medical device of claim 12, wherein the second set of struts is slideably attached to the central shaft.
- 15. (withdrawn) The medical device of claim 12, wherein the central shaft comprises a sliding member having a proximal end, a distal end and a lumen therebetween and a core member at least partially disposed in the lumen of the sliding member, wherein the second set of struts is attached to the sliding member of the central shaft.
- 16. (withdrawn) The medical device of claim 15, further comprising a sheath disposed over a portion of the central shaft proximal the actuation system.

- 17. (original) The medical device of claim 1, further comprising an anticlotting agent.
 - 18. (original) An intravascular pump, comprising:
 - a flexible wall defining a pumping chamber; and
 - a pumping mechanism including a frame attached to the wall.
- 19. (original) The pump of claim 18, wherein the pumping mechanism includes a central shaft and moveable struts extending between the central shaft and the frame.
- 20. (original) The pump of claim 19, wherein the pumping mechanism includes a balloon.
- 21. (original) The pump of claim 19, wherein the pumping mechanism further includes a member made from a shape memory alloy having a transformation temperature and means to move the shape memory alloy through the transformation temperature.
- 22. (original) The pump of claim 21, wherein the shape memory alloy comprises Nitinol.
- 23. (original) The pump of claim 19, wherein the pumping mechanism further includes an electroactive polymer.
- 24. (original) The pump of claim 19, further comprising a control system for controlling the pump.
- 25. (original) The pump of claim 24, wherein the control system comprises a sensor for measuring heart activity.

- 26. (original) The pump of claim 24, wherein the control system includes an interface for use with a pacemaker.
- 27. (withdrawn) A method for installing a pump intravascularly, comprising the steps of:

providing a percutaneous catheter;

providing a pump;

disposing the pump in the percutaneous catheter;

moving the percutaneous catheter proximate a desired position in the intravascular system;

withdrawing the percutaneous catheter, and leaving the pump.

- 28. (withdrawn) The method of claim 27, wherein the desired position is a left ventricle.
- 29. (withdrawn) The method of claim 28, further comprising the step of pushing the pump from the percutaneous catheter.
- 30. (withdrawn) The method of claim 29, wherein the pump includes an elongate member.
- 31. (withdrawn) The method of claim 30, wherein the pump includes a flexible wall defining a pumping chamber.
- 32. (withdrawn) The method of claim 31, wherein the pump includes a plurality of support struts attached to the flexible wall.